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IMAGERY
ANALYSIS
DIVISION

PIR

PHOTOGRAPHIC INTELLIGENCE REPORT

CHI-LIN NITROGEN FERTILIZER PLANT

CHI-LIN, CHINA

25X1

25X1

Declass Review by NIMA / DOD

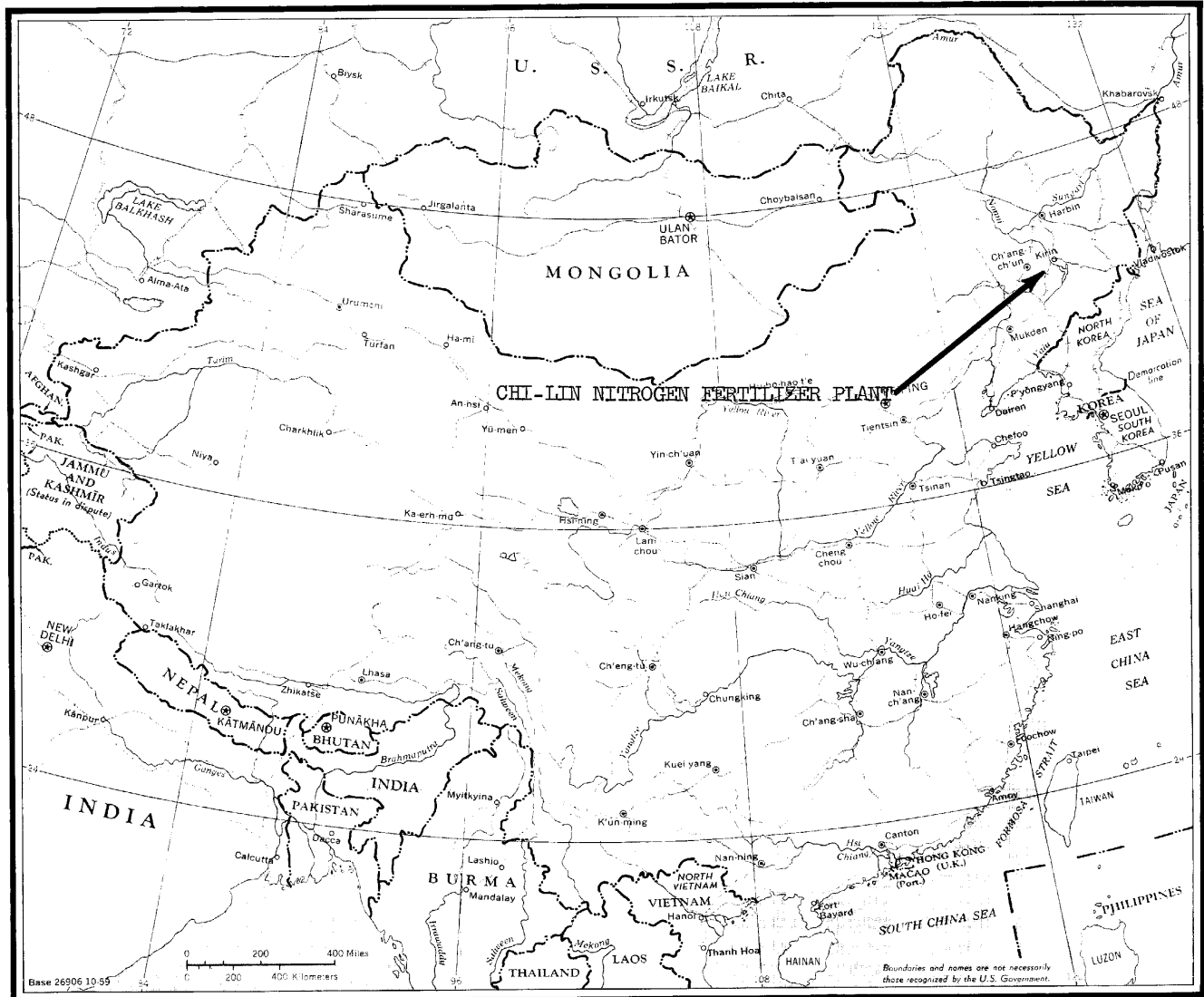
DATE AUGUST 1966

COPY

PAGES 9

GROUP 1
Excluded from automatic
downgrading and declassification

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25X5

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25X1

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25X1

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25X1

CHI-LIN NITROGEN FERTILIZER PLANT
CHI-LIN, CHINA

A large nitrogenous fertilizer plant is located in the chemical complex north of Chi-lin (Kirin) on the east bank of the Sung-hua River. This installation is situated approximately six nm north of the railroad classification yards in Chi-lin, at approximately 43 55N - 126 32E. The plant is basically square in shape with dimensions of approximately 3,000 feet by 4,000 feet.

All available photographic coverage during the period [redacted] was examined with emphasis on the identification of major production facilities and developments within the installation. The following descriptions are keyed to annotations on Figure 6:

25X1

25X1

1) Hydrogen gas for the synthesis of ammonia is produced in this section. Gas produced from coal in the retorts (a) is processed in the contact ovens (b). The carbon dioxide is removed in the purification towers (c). [redacted] a gas storage tank was constructed in this area.

25X1

2) This area probably contains a water gas generating unit (d) to aid the production of hydrogen, carbon monoxide, and carbon dioxide for use in making alcohol and dry ice. One large and two small unidentified buildings were constructed in the northern section of this area. [redacted]

25X1

3) From area one, the hydrogen gas goes to the compressor building (e) and a purification building (f) in area three for the removal of sulfur [redacted] the purification building has doubled in size and also two small warehouse buildings were constructed in the southern part of this section.

25X1

4) In this area, nitrogen and hydrogen are converted to ammonia. A third converter tower was built [redacted] (h). The ammonia gas is then sent to the compressor building (g) where it is liquified and stored in the two storage tanks (i).

25X1

5) This area is served by two spurs of the Chi-lin to Chiao-ho Railroad, which would suggest a possible shipping area. The activity of tank cars on this spur has increased [redacted]

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25X1

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25X1

6 and 7) These areas are unidentified. A possible distillation building has been constructed in the northeast section of area 6. The unidentified buildings in 6 and 7 are probably for the production of methanol, which can be synthesized from hydrogen, carbon dioxide, and carbon monoxide. Some buildings are also probably used for the manufacturing of dry ice from carbon dioxide and carbon monoxide.

8) This area consists of the ammonia synthesis building (j) and the oxidation towers (k) for nitric acid.

9) This is a warehouse and open storage area consisting of numerous storage facilities (n). There were about ten new warehouse buildings constructed [redacted] Additional warehouse buildings were constructed [redacted] This area together with area 10 are served by spurs of the Chi-lin to Chiao-ho Railroad.

25X1

25X1

10) Ammonium nitrate solution is synthesized from the ammonia and nitric acid in the reactor building (l) and goes to the prilling towers (m) [redacted] a third prilling tower was built, thus increasing the facilities for the production of ammonium nitrate. There are several unidentified buildings in the northwestern section of this area.

25X1

11) This area is unidentified. Pipelines from the nitric acid section (8) serve this area. Considerable construction has taken place in area 11 [redacted] the date of the latest photographic coverage.

25X1

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25X1

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25X1

25X1

MAPS AND CHARTS

Locator Map, Communist China, 26906, 10-59 (UNCLASSIFIED)

ACIC, U.S. Air Target Chart, Series 200, Sheet MO290-3HL, 3rd Edition, July 1964,
Scale 1:200,000 (SECRET)

25X1

REQUIREMENT

C-RR5-83,036

CIA/IAD PROJECT

30432-6

25X1

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FIGURE 3

CHI-LIN NITROGEN FERTILIZER PLANT

CHI-LIN, CHINA

25X1

43 55N - 126 32E

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FIGURE 4

CHI-LIN NITROGEN FERTILIZER PLANT
CHI-LIN, CHINA
25X1 43 55N - 126 32E

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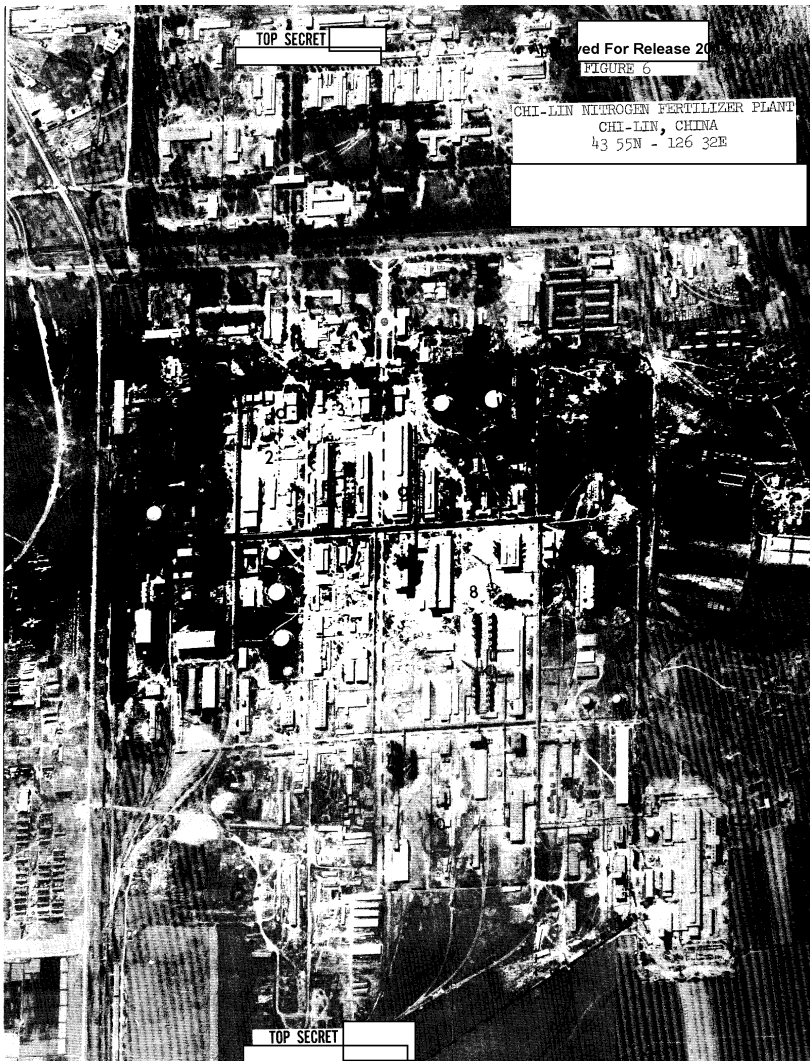
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FIGURE 5

CHI-LIN NITROGEN FERTILIZER PLANT
CHI-LIN, CHINA
25X1 43 55N - 126 32E

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ITEM

DESCRIPTION

25X1

- | | |
|---------|--|
| 1 | Gas Generating Area |
| | a) Gas generating retorts |
| | b) Contact ovens |
| | c) Purification towers |
| 2 | Water Gas Generating Area |
| | d) Possible water gas unit |
| 3 | Sulfur Removal Area |
| | e) Compressor building |
| | f) Desulfurization unit |
| 4 | Ammonia Synthesis Area |
| | g) Compressor building |
| | h) Converter towers |
| | i) Aqueous ammonia storage tanks |
| 5, 6, 7 | Unidentified Areas |
| 8 | Ammonia and Nitric Acid Synthesis Area |
| | j) Ammonia synthesis building |
| | k) Nitric acid oxidation towers |
| 9 | Storage Area |
| | n) Warehouse buildings and storage |
| 10 | Fertilizer Synthesis Area |
| | l) Reactor building |
| | m) Prilling towers |
| 11 | Unidentified Area |

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